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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/737,046	12/16/2003	Michael S. Hibbs	BUR920010135US2	4755
23550 75	590 10/08/2004		EXAMINER	
	VARNICK & D'ALESSA	NGUYEN, HUNG		
	3 E-COMM SQUARE ALBANY, NY 12207		ART UNIT	PAPER NUMBER
,	1220,		2851	
			DATE MAILED: 10/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/737,046	HIBBS, MICHAEL S.			
		Examiner	Art Unit			
		Hung Henry V Nguyen	2851			
D	The MAILING DATE of this communication		the correspondence address			
	or Reply					
THE - Extraded - If th - If N - Fail Any	MAILING DATE OF THIS COMMUNICATION OF THIS C	ON. FR 1.136(a). In no event, however, may a rep n. a reply within the statutory minimum of thirty (eriod will apply and will expire SIX (6) MONTH statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. 1-S from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on	16 December 2003.				
· · · · ·	_ · · · · · · · · · · · · · · · · · · ·	This action is non-final.				
3)[<u> </u>					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
4) 又	Claim(s) 21-40 is/are pending in the applic	cation.				
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.	·				
· · · · ·	Claim(s) <u>21-25,27-32,34 and 36-40</u> is/are	rejected.				
	Claim(s) <u>26, 33, 35</u> is/are objected to.	•				
	Claim(s) are subject to restriction a	nd/or election requirement.				
Applicat	tion Papers					
	The specification is objected to by the Example 1	miner				
	The drawing(s) filed on 16 December 2003		objected to by the Examiner			
,	Applicant may not request that any objection to		•			
	Replacement drawing sheet(s) including the co		· •			
11)	The oath or declaration is objected to by th					
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. & 1	(19(a)-(d) or (f)			
) All b) Some * c) None of:	eigh phonty under 55 6.5.6. 3	13(2)-(4) 61 (1).			
-,	1. Certified copies of the priority document	nents have been received				
	2. Certified copies of the priority docum		olication No.			
	3. Copies of the certified copies of the	• •				
	application from the International Bu		· ·			
* ;	See the attached detailed Office action for a	a list of the certified copies not re	eceived.			
Attachmei	nt(s)					
	ce of References Cited (PTO-892)		mmary (PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SI		Mail Date ormal Patent Application (PTO-152)			
	er No(s)/Mail Date	6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 21-27, 32, 39-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato (U.S.Pat. 6,791,661).

With respect to claim 21, Sato (figure 6) discloses a mounting system for a pellicle and comprising all basic structures of the claim such as: a mounting structure (PF) for coupling a pellicle (PE) to a mask (M) wherein a sealed interior portion (GS) is formed between the pellicle, the mask and the mounting structure, and a pressure regulator (92) in communication with the seal interior portion to control a pressure in the interior portion (see col.4, lines 20-35).

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As to claims 22-23, Sato discloses a source of high pressure gas (94,94a) coupled to the pressure regulator and a source of low pressure gas (93, 93a) coupled to the pressure regulator wherein one of the sources of pressure gas is the exterior environment.

As to claims 24, and 29, Sato further disclose a pressure sensor (87) operatively coupled to the pressure regulator for detecting a pressure of the interior portion (see col.4, lines 44-50).

As to claim 25, Sato teaches a detector (85) for measuring the position of the pellicle.

As to claim 27, Sato discloses a calibrated leak/ventilation hole (h) from the interior portion to an exterior environment.

Regarding claims 37, 39-40, the method claims are seen to be inherent teachings in the existence of the above apparatus.

3. Claims 21-24, 27, 39-40, are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Nakano (U.S.Pat. 6,788,392).

With respect to claims 21-23, Nakano (figure 1) discloses a mounting system for a pellicle and comprising all the limitations of the claim such as: a mounting structure (28) for coupling a pellicle (24) to a mask (23) wherein a sealed interior portion (36) is formed between the pellicle, the mask and the mounting structure, and a pressure regulator (32, 33) in communication with the seal interior portion to control a pressure in the interior portion. Nakano further discloses a source of high pressure gas (34) coupled to the pressure regulator and a source of low pressure gas (35) coupled to the pressure regulator wherein one of the sources of pressure gas is the exterior environment.

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As to claims 24, and 29, Nakano disclose a pressure sensor (31) operatively coupled to the pressure regulator for detecting a pressure of the interior portion. (see col8, lines 57-60)

As to claim 27, Nakano further discloses a calibrated leak/ventilation hole (see figure 1) from the interior portion to an exterior environment.

Regarding claims 37, 39-40, the method claims are seen to be inherent teachings in the existence of the above apparatus.

4. Claims 21, 29, 37 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Yasuda et al (U.S. 2003/0016338 A1).

With respect to claims 21, 29 and 37, Yasuda (figure 1) discloses a mounting system comprising all structures set forth in the instant claims including: a mounting structure for coupling a pellicle (38) to a mask (10) wherein a sealed interior portion (40) is formed between the pellicle, the mask and the mounting structure, and a pressure regulator (32, 34) in communication with the seal interior portion via a port (36) to control a pressure in the interior portion.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 28, 30-31, 34, 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Sato (U.S.Pat. 6,791,661) or Nakano (U.S.Pat. 6,788,392) in view of Sego (U.S.Pat. 6,055,040).

With respect to claims 28, 30-31, 34 and 36-38, Sato or Nakano discloses a mounting system for a pellicle and comprising substantially all of the limitations of the claims as discussed except for "an aerodynamic fairing" as recited in the instant claims. Sego teaches a device for holding a pellicle. Sego further discloses a structure constituting of a portion of the membrane (230) attached to frame (240) at the top of the outer wall (251) with an adhesive (401) for the purpose of reducing turbulent air flow exerted on the pellicle (see figure 4, and col.7, lines 45-56). In view of such teachings, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Sato/or Sakano and Sego to obtain the invention as specified in the above mentioned claims. It would have been obvious to a skilled artisan to utilize the structure/"aerodynamic fairing" as taught by Sego into the mounting device of Sato/or Nakano for the purpose of reducing the deformation of the pellicle due to the effects of the air turbulence when the mask is moving whereby the operation life of the device is greatly prolonged.

Allowable Subject Matter

7. Claims 26, 33, 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or suggests the pressure difference in the sealed interior

portion being controlled to maintain a flat surface on the pellicle based on a reading from a

velocity as recited in claims 26 and 33.

As to claim 35, among with the other features, the prior art of record lacks to a retractable

plate for providing a substantially continuous surface between the aerodynamic fairings.

Prior Art Made of Record

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Eynon (U.S.Pat. 6,524,754) discloses a mounting structure for a pellicle and comprising

substantially all elements as recited in the instant claims of the present application.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung Henry V Nguyen whose telephone number is 571-272-

2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung Henry V Nguyen Primary Examiner

Hanhanyan

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hvn 10/1/04